

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	16	konagai-yusuke\$.in.	US-PGPUB; USPAT	OR	OFF	2008/01/06 21:30
S1	1	"20070030977"	US-PGPUB; USPAT	OR	OFF	2007/11/12 10:17
S2	166	381/17 and weight\$3	US-PGPUB; USPAT	OR	OFF	2007/11/12 10:20
S3	42	381/17 and weight\$3 and array	US-PGPUB; USPAT	OR	OFF	2007/11/12 10:23
S4	21	381/17 and weight\$3 and (array same speaker\$1)	US-PGPUB; USPAT	OR	OFF	2007/11/12 10:28
S5	8	381/300 and weight\$3 and (array same speaker\$1)	US-PGPUB; USPAT	OR	OFF	2007/11/12 10:45
S6	6	381/27 and weight\$3 and (array same speaker\$1)	US-PGPUB; USPAT	OR	OFF	2007/11/12 10:46
S7	15	381/27 and (weight\$3 or gain) and (array same speaker\$1)	US-PGPUB; USPAT	OR	OFF	2007/11/12 10:47
S8	5	381/27 and ((weight\$3 or gain) same center) and (array same speaker\$1)	US-PGPUB; USPAT	OR	OFF	2007/11/12 10:53
S9	0	381/387 and ((weight\$3 or gain) same center) and (array same speaker\$1)	US-PGPUB; USPAT	OR	OFF	2008/01/02 15:48
S10	141	((weight\$3 or gain) same center) and (array same speaker\$1)	US-PGPUB; USPAT	OR	OFF	2007/11/12 12:22
S11	11	("4071848"   "4589137"   "4677676"   "4815139"   "4829590"   "5216721"   "5216722"   "5343211"   "5438624"   "5515060"   "5581620").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/12 11:39
S12	8	(hamming near function) and (array same speaker\$1)	US-PGPUB; USPAT	OR	OFF	2007/11/12 12:22
S13	9	("5317304"   "5493273"   "5535135"   "5690893"   "5860936"   "5924979"   "6093153"   "6147674"   "6199018").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/12 12:25
S14	10	("4497023"   "4597100"   "4622689"   "4685134"   "4736333"   "4933768"   "5095798"   "5233664"   "5386082"   "5459790").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/12 13:23

## EAST Search History

S15	22	"5396560"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/12 13:25
S16	50	"5276739"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/11/12 13:25
S17	1	"20070030977"	US-PGPUB; USPAT	OR	OFF	2007/12/10 06:25
S18	895	381/17	US-PGPUB; USPAT	OR	OFF	2007/12/10 06:25
S19	150	S18 and array	US-PGPUB; USPAT	OR	OFF	2007/12/10 06:31
S20	685	S18 and (array near speaker\$1)	US-PGPUB; USPAT	OR	OFF	2007/12/10 06:32
S21	47	S18 and (array near speaker\$1)	US-PGPUB; USPAT	OR	OFF	2007/12/10 06:33
S22	6	S18 and ((array near speaker\$1) same (low near frequency))	US-PGPUB; USPAT	OR	OFF	2007/12/10 07:23
S23	37	((array near speaker\$1) same (low near frequency))	US-PGPUB; USPAT	OR	OFF	2007/12/10 08:09
S24	3	((array near speaker\$1) same (low near frequency) same gain)	US-PGPUB; USPAT	OR	OFF	2007/12/10 07:35
S25	12	((array near speaker\$1) same (low near frequency)) and gain	US-PGPUB; USPAT	OR	OFF	2007/12/10 08:10
S26	0	381/96 and ((weight\$3 or gain) same center) and (array same speaker\$1)	US-PGPUB; USPAT	OR	OFF	2008/01/02 15:49
S27	490	381/96	US-PGPUB; USPAT	OR	OFF	2008/01/02 15:50
S28	1	"20070030977"	US-PGPUB; USPAT	OR	OFF	2008/01/02 15:55
S29	14033	"0010"	US-PGPUB; USPAT	OR	OFF	2008/01/02 15:50
S30	29	S27 and ((gain or weight) same center)	US-PGPUB; USPAT	OR	OFF	2008/01/02 16:01
S31	4	S27 and ((gain or weight) same center same speaker)	US-PGPUB; USPAT	OR	OFF	2008/01/02 16:04
S32	2	381/97 and ((gain or weight) same center same speaker)	US-PGPUB; USPAT	OR	OFF	2008/01/02 16:09
S33	0	381/95 and ((gain or weight) same center same speaker)	US-PGPUB; USPAT	OR	OFF	2008/01/02 16:10
S34	6	381/89 and ((gain or weight) same center same speaker)	US-PGPUB; USPAT	OR	OFF	2008/01/02 16:12

## EAST Search History

S35	18	381/89 and ((gain or weight) same low same speaker)	US-PGPUB; USPAT	OR	OFF	2008/01/02 16:24
S36	32	381/96 and ((gain or weight) same low same speaker)	US-PGPUB; USPAT	OR	OFF	2008/01/02 17:16
S37	10	381/97 and ((gain or weight) same low same speaker)	US-PGPUB; USPAT	OR	OFF	2008/01/02 17:45
S38	11	("20020186854"   "20030021433"   "20030190047"   "20030210800"   "20040032955"   "20040105550"   "20040105559"   "4769848"   "4885782"   "5119420"   "5668884").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/02 17:19
S39	7	381/95 and ((gain or weight) same low same speaker)	US-PGPUB; USPAT	OR	OFF	2008/01/02 17:50
S40	17	381/77 and ((gain or weight) same low same speaker)	US-PGPUB; USPAT	OR	OFF	2008/01/02 18:29
S41	11	("20020186854"   "20030021433"   "20030190047"   "20030210800"   "20040032955"   "20040105550"   "20040105559"   "4769848"   "4885782"   "5119420"   "5668884").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/02 18:17
S42	4	381/80 and ((gain or weight) same low same speaker)	US-PGPUB; USPAT	OR	OFF	2008/01/02 18:35
S43	2	381/81 and ((gain or weight) same low same speaker)	US-PGPUB; USPAT	OR	OFF	2008/01/02 18:36
S44	31	381/81 and (low same speakers)	US-PGPUB; USPAT	OR	OFF	2008/01/02 18:36
S45	86	381/96 and (low same speakers)	US-PGPUB; USPAT	OR	OFF	2008/01/02 18:57
S46	199	381/96 and (frequencysame speakers)	US-PGPUB; USPAT	OR	OFF	2008/01/06 14:48
S47	119	381/96 and (frequency same speakers)	US-PGPUB; USPAT	OR	OFF	2008/01/02 19:25
S48	8	("20030086577"   "4622691"   "5138665"   "5146507"   "5172417"   "5255323"   "6501843"   "6961438").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/02 19:02
S49	70	381/97 and (frequency same speakers)	US-PGPUB; USPAT	OR	OFF	2008/01/03 13:33
S50	1	"7027600"	US-PGPUB; USPAT	OR	OFF	2008/01/03 13:33
S51	10	"5974152"	US-PGPUB; USPAT	OR	OFF	2008/01/03 13:34
S52	1	"7116788"	US-PGPUB; USPAT	OR	OFF	2008/01/03 13:34

## EAST Search History

S53	1	"20070030976"	US-PGPUB; USPAT	OR	OFF	2008/01/03 14:13
S54	490	381/96	US-PGPUB; USPAT	OR	OFF	2008/01/03 14:13
S55	8	("20030086577"   "4622691"   "5138665"   "5146507"   "5172417"   "5255323"   "6501843"   "6961438").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/03 14:15
S56	61	("3357291"   "3524143"   "3539699"   "3683293"   "3835409"   "4151477"   "4175462"   "4194165"   "4211893"   "4251688"   "4495640"   "4627094"   "4809336"   "4811401"   "4843390"   "4852444"   "4901618"   "4937874"   "4984495"   "4992751"   "4995084"   "5007324"   "5009146"   "5009147"   "5012199"   "5023915"   "5032796"   "5060179"   "5074184"   "5074185"   "5086475"   "5094138"   "5097741"   "5119430"   "5131044"   "5133014"   "5138926"   "5159144"   "5173834"   "5197102"   "5198603"   "5212676"   "5262580"   "5268527"   "5270475"   "5270476"   "5308916"   "5367120"   "5387876"   "5393926"   "5434536"   "5486646"   "5509080"   "5524055"   "5543579"   "5578948"   "5613010"   "5617058").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/03 14:20
S57	7	("5617480"   "5930374"   "6317117"   "6405227"   "6606388"   "6674864"   "6775385").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/03 15:43
S58	19	("3369176"   "3805155"   "4144490"   "4346268"   "4370650"   "4520503"   "4618981"   "4811395"   "5475315"   "5568559"   "5633909"   "5644495"   "5644505"   "5748001"   "5757939"   "5793956"   "5812506"   "5818240").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/03 16:11

## EAST Search History

S59	16	381/96 and (frequency same speakers) and midrange	US-PGPUB; USPAT	OR	OFF	2008/01/06 14:48
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